



# Maricopa County

Air Quality Department

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MARICOPA COUNTY

Return completed form to:

Maricopa County Air Quality Department

1001 N Central Ave, Suite 125, Phoenix, AZ 85004

Phone (602) 506-6010 Fax (602) 372-0587

AQPermits@mail.maricopa.gov

## NON-TITLE V PERMIT APPLICATION

### APPLICATION FOR THE AUTHORITY TO OPERATE AND/OR CONSTRUCT A NON-TITLE V OPERATION

As required by A.R.S. §49-480 and Maricopa County Air Pollution Control Regulations, Rule 200)

#### ALL APPLICANTS MUST COMPLETE THE ENTIRE APPLICATION

**Important:** Please note that email will be our primary means for routine communication with you, unless you do not have an email account. Please be sure that your email address is entered correctly.

1. Business Name (as filled with the Arizona Corporation Commission):		CalPortland Company	
2. Is this a portable source?		<input checked="" type="checkbox"/> Yes (If yes, provide the <u>current</u> site information in items 2a, 3 and 3a) <input type="checkbox"/> No (Complete items 2a, 3, and 3a)	
2a. Address of site: 31805 West Southern Avenue			
City: Buckeye		State: AZ	Zip Code: 85326
2b. Parcel #	504-36-019B	LOOKUP AT: <a href="http://mcassessor.maricopa.gov/Assessor/ParcelApplication/Default.aspx">http://mcassessor.maricopa.gov/Assessor/ParcelApplication/Default.aspx</a>	
3. Contact Person at Site: Robert Cantu			
4. Type of Ownership: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Owner <input type="checkbox"/> Partnership <input type="checkbox"/> Government <input type="checkbox"/> Other - Specify:			
5. Name of Ownership or Legal Entity: CalPortland Company			
Address: 2400 N. Central Avenue, Suite 400			
City: Phoenix		State: Arizona	Zip Code: 85004
6. Ownership Contact: Scott Hughes		6b. Fax: (602) 817-6939	6a. Telephone: (602) 817-6927
7. Send All Correspondence Including Invoice And Permit To:	Company Name: CalPortland Address: 2400 N. Central Avenue, Suite 400 City: Phoenix State: Arizona Zip Code: 85004 ATTN: Scott Hughes		
8. SIC (Standard Industrial Classification) or NAICS (North American Industry Classification) Code(s): 3273	9. Is this a renewal application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, enter the existing air permit number for this site:		
10. If this application is submitted as a renewal application, has the ownership of this facility changed since the permit was last issued or transferred. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
11. Brief Description Of Business Or Process At Site: Concrete production, ready-mix batch plant			
12. Operating Schedule:	Hours Per Day: 8	Days Per Week: 6	Weeks Per Year: 50
13. Projected Start-Up Date (New Facilities):			
14. The authorized contact person regarding this application is:			
Name: Scott Hughes		Telephone: (602) 817-6927	
Title: Environmental Manager - AZ/NV Region		Fax: (602) 817-6939	
Company: CalPortland Company		E-mail: shughes@calportland.com	
15. I certify that I am familiar with the operations and equipment represented on this application and attachments and the information provided herein is true and complete to the best of my knowledge.			
Signature of owner or responsible official of business:		Date: 2/8/2016	
Type or Print Name and Title:		Scott Hughes, Env. Manager AZ/NV Region	
For Office Use Only		Date Received:	Log Number: 160015-411782



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MARICOPA COUNTY  
AIR QUALITY DEPARTMENT

February 8, 2016

Air Permitting and Compliance  
Maricopa County Air Quality Department  
1001 North Central Avenue, Suite 125  
Phoenix, Arizona 85004

Re: Air Permit Application

We are submitting this application for a portable ready-mix batch plant to be located at 31805 West Southern Avenue, Buckeye, Arizona. The equipment to be used was formerly permitted to Fort McDowell Yavapai Materials. The facility has an existing, approved Dust Control Plan and Operation and Maintenance Plan; however, we are updating the plans using the current format developed by MCAQD.

Please contact me at (602) 817-6927, or our consultant Barbara Sylvester of Brown and Caldwell at (602) 567-3894, if you have any questions or comments.

Sincerely,

CalPortland Company

Scott Hughes  
Environmental Manager – Arizona/Nevada Region



# Maricopa County

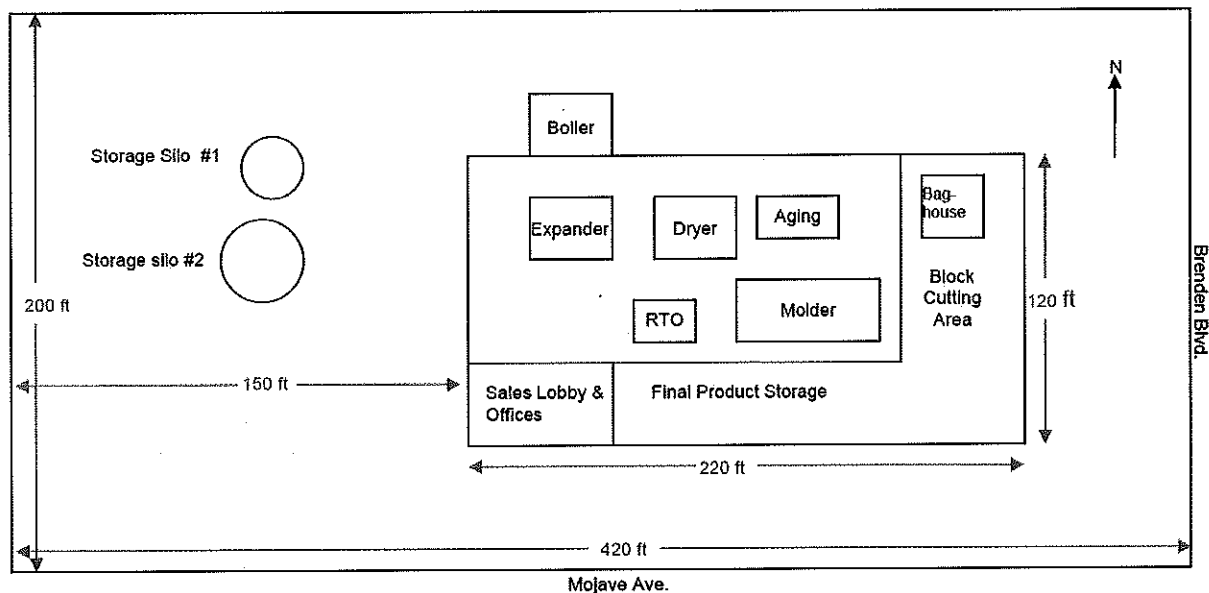
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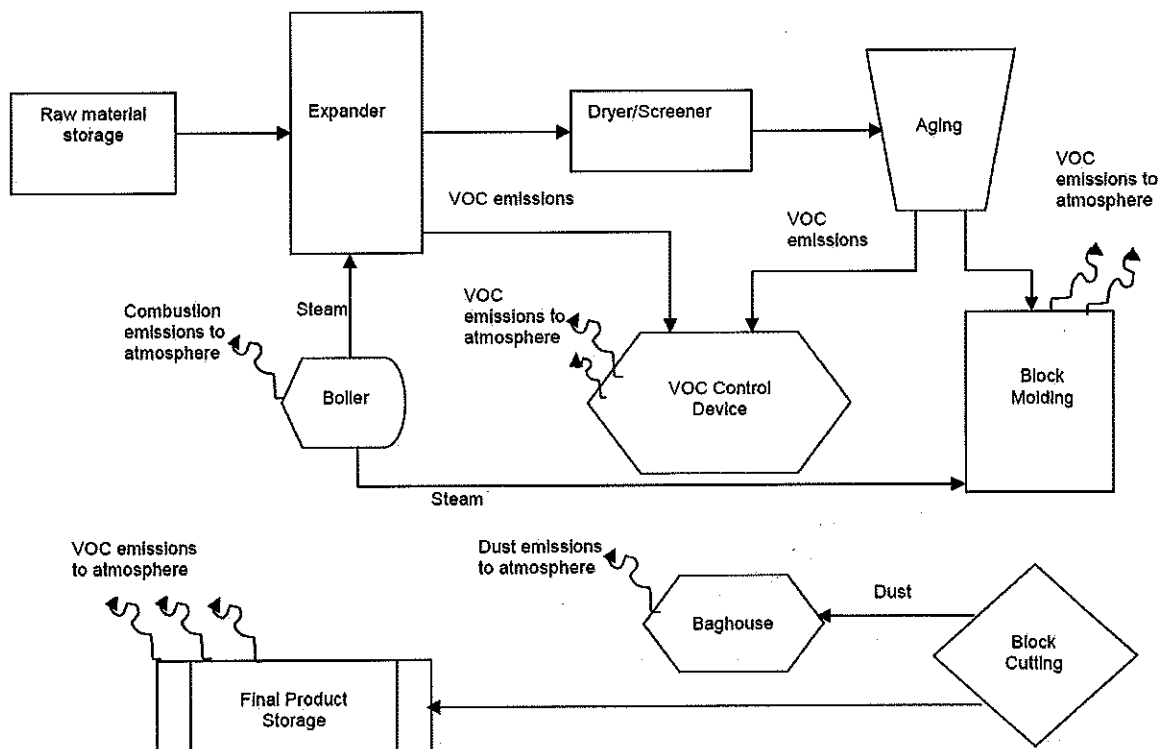
16. **SITE DIAGRAM:** Attach a site layout showing distances to property lines, equipment, controls, ducts, stacks and emission points. Also show storage areas for fuels, raw materials, chemicals, finished products, waste materials, etc.

EXAMPLE SITE DIAGRAM



17. **PROCESS FLOW DIAGRAM:** Attach a flow diagram which indicates how processes/activities are conducted at the facility. Begin with raw materials and show each step in the production process. Also indicate emissions control devices and all emission points. An example process flow diagram is provided below.

EXAMPLE PROCESS FLOW DIAGRAM





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18. OPERATION & MAINTENANCE (O&M) PLAN(S). O&M Plans are required for any process that vents emissions through a control device and includes both add-on control type equipment or processes whose controls are integrated into the design of the process equipment. Indicate if your facility has such control devices. (The list below is not an all-inclusive list of control devices.)

<u>Equipment</u>	<u>No</u>	<u>Yes</u>	<u>How Many?</u>
Baghouse	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3
Dust Collector/Filter	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1
Incineration System (e.g., catalytic or thermal oxidizer, afterburner, boiler, process heater, flare) – Specify:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Scrubber	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Adsorption Unit (e.g., resin, carbon filter, other) - Specify:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Absorption Unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Other - Specify:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

If you checked YES to any of these boxes, attach a separate O&M Plan for each control device. The O&M Plan should describe key system operating parameters and appropriate operating ranges for these parameters. For new equipment or processes, provide an educated estimate of the ranges of any parameters to be monitored. These ranges should be supported with manufacturer's test data or other manufacturer's data from engineering calculations and/or experience with the equipment. In addition, O&M Plans should be prepared in accordance with Maricopa County Air Quality Department - Operation and Maintenance (O&M) Plan Guidelines. A copy of these guidelines can be obtained at: [http://www.maricopa.gov/aq/divisions/permit\\_engineering/docs/pdf/OMGuidelines.pdf](http://www.maricopa.gov/aq/divisions/permit_engineering/docs/pdf/OMGuidelines.pdf) or by contacting the Permits Program Coordinator at (602) 506-6094. Multiple control devices can be combined in a single O&M Plan providing they are identical in type, capacity, and use. A separate O&M Plan is required for each device that is unique in type, capacity, or use.

19. DUST CONTROL PLAN. The owner and/or operator of a dust-generating operation shall submit to the Control Officer a Dust Control Plan with any permit applications that involve dust-generating operations with a disturbed surface area that equals or exceeds 0.10 acre (4,356 square feet). Facilities subject to Rule 316: Nonmetallic Mineral Processing are also required to submit a Dust Control Plan.

<u>Requirement</u>	<u>No</u>	<u>Yes</u>	<u>Disturbed Surface Area ≥ 0.10 Acre</u>	<u>Subject to Rule 316</u>
Dust Control Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

For further guidance completing the dust control plan, review the "Guidance For Dust Control Permit For Application" document located at <http://www.maricopa.gov/aq/divisions/compliance/dust/docs/pdf/DustControlPlanStationarySource.pdf> or contact the Dust Compliance Division at (602) 506-6010.



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20. APPLICABLE SECTIONS. Review each section of the application and mark below which sections apply to this facility. In the final application, submit only those sections that apply to this facility. Note that Section Z must be completed by all applicants.

- ☒ A Fuel Burning Equipment
- ☒ B Internal Combustion Engines & Turbines
- ☐ C Petroleum Storage Tanks
- ☐ D Water & Soil Remediation
- ☐ E-1 Spray Painting & Other Surface Coating (excluding vehicle and wood coating)
- ☐ E-2 Vehicle & Mobile Equipment Coating
- ☐ F Woodworking and Wood Coating Operations
- ☐ G Solvent Cleaning
- ☐ H Plating, Etching & Other Metal Finishing Processes
- ☐ I Dry Cleaning Equipment
- ☐ J Graphic Arts
- ☒ K-1 Concrete Batch Plants
- ☐ K-2 Non-Metallic Mineral Mining and Processing
- ☐ K-3 Asphalt Production
- ☒ K-4 Non-Metallic Mineral Processing (continued)
- ☒ L Other Dust-Generating Operations
- ☐ M Abrasive Blasting
- ☐ X-1 Point Source Emissions of Hazardous Air Pollutants
- ☐ X-2 Non-Point Area Emission Sources for Hazardous Air Pollutants
- ☐ Y Other Sources
- ☒ Z Air Pollution Emissions



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## NON-TITLE V PERMIT APPLICATION

### SECTION A. EXTERNAL FUEL BURNING EQUIPMENT

Your facility may not require a Non-Title V permit if the facility is eligible to obtain an authority to operate (ATO) under a general permit. (Refer to [http://www.maricopa.gov/aq/divisions/permit\\_engineering/docs/pdf/fuel-burning-permit-application.pdf](http://www.maricopa.gov/aq/divisions/permit_engineering/docs/pdf/fuel-burning-permit-application.pdf) to determine eligibility.)

Complete this section if you burn natural gas, propane, butane, waste derived fuel, fuel oils, diesel, kerosene, gasoline, coal, charcoal, wood, or any other fossil fuel. Provide complete specifications for non-commercial and special fuels. Describe equipment such as boilers, furnaces, space heaters, water heaters, dryers, pool and spa heaters, kilns, ovens, burners, stoves, steam cleaners, hot water pressure washers, etc, with an input rating of 300,000 Btu/hr or more. Do not include vehicles, forklifts, lawn mowers, weed eaters and hand-held equipment operating on fossil fuels. Use Section Y to describe items such as asphalt kettles, incinerators, crematories, and emission control devices burning fuel. List internal combustion engines and gas turbines in Section B.

Fuel Type	Equipment Description. (Include make & model.) Describe air pollution abatement/controls, if any.	Date of Installation	How Many	Number of Hours in Operation Daily	Number of Hours in Operation Annually	Equipment Rating (Btu/hr or MMBtu/hr)
Propane	Kemco RM Water Heater	3/2007	1	24	2,880	4.5 MMBTU/hr



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## NON-TITLE V PERMIT APPLICATION

### SECTION B. INTERNAL COMBUSTION ENGINES & TURBINES

Your facility may not require a Non-Title V permit if the facility is eligible to obtain an authority to operate (ATO) under a general permit. (Refer to [http://www.maricopa.gov/aq/divisions/permit\\_engineering/docs/pdf/emergency-ICE-permit-application.pdf](http://www.maricopa.gov/aq/divisions/permit_engineering/docs/pdf/emergency-ICE-permit-application.pdf) to determine eligibility.)

This section applies to stationary and portable fuel-fired equipment such as generators, fire pumps, air conditioning compressor engines, co-generation units, etc. Indicate in the description if the equipment is used only for emergency purposes. Attach the manufacturer's specification sheets for each engine listing the engine make, model, model year, emission data, and maximum engine power rating. Do not include vehicles, forklifts, lawn mowers and hand-held equipment. Use additional sheets if necessary.

Fuel Type	Equipment Description. (Include make & model.) Describe air pollution abatement/controls, if any.	Date of Manufacture	How Many	Number of Hours in Operation Daily	Number of Hours in Operation Annually	Engine Rating <sup>1</sup> (bhp, bkW)	Genset Output <sup>2</sup> (hp, kW)
Diesel	Caterpillar KVA 456, KW 365	01-Jan-06	1	8	2,400	272 bhp	563 hp

<sup>1</sup>Enter the brake horsepower (bhp) or brake kilowatt (bkW) rating of the engine. This information may be found on the engine faceplate or obtained from the engine manufacturer. NOTE: The engine bhp/bkW rating should not be confused with the output power rating of the generator.

<sup>2</sup>Enter the output power rating of the generator. This information may be found on the generator faceplate or obtained from the generator manufacturer.



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## NON-TITLE V PERMIT APPLICATION

### SECTION K-1. CONCRETE BATCH PLANTS, LOADING STATIONS AND/OR BAGGING OPERATIONS

This section is intended for all processes, equipment and related emission controls for concrete batch plants, loading stations and/or bagging operations. Provide flow diagrams and layouts for each process. An operation and maintenance plan for each air pollution control device is required. Describe how the annual quantity figures were developed. If aggregate crushing occurs in conjunction with this process, you must also complete Section Y.

1. Type Of Operation ☒ Concrete Batch Plant ☐ Dry Mix Concrete ☐ Bagging Operation ☐ Loading Station  
☐ Other \_\_\_\_\_

2. Raw Material. List all materials handled, stored, processed, used, mixed, treated, or emitted.

Material Type/Transfer Operation	Maximum Projected Annual Usage or Throughput (tons/yr)	Actual Annual Usage or Throughput from Previous 12 Months (tons/yr)
Sand delivered to ground storage	241,920	
Aggregate delivered to ground storage	309,120	
Sand transfer to conveyor (account for multiple transfer points)*	241,920	
Aggregate transfer to conveyor (account for multiple transfer points)*	309,120	
Sand transfer to elevated storage bin	241,920	
Cement transfer to elevated silo	80,640	
Cement supplement (such as flyash) transfer to elevated silo	13,440	
Weigh hopper loading (sand and aggregate only)	551,040	
Mixer loading - central mix (cement and supplement only)		
Truck loading - truck mix (cement and supplement only)	94,080	
Other (specify): Aggregate transfer to elevated storage bin	309,120	

\*For sand and aggregate transfer to conveyor, account for multiple transfer points. For example, if 100 tons of sand is transferred three times to different conveyors, the total throughput of sand is 300 tons.

3. Processing. Describe each piece of equipment utilizing the table below. List weigh hoppers, conveyers, mixers, etc. Assign an equipment number in the table below and label the attached flow diagram accordingly. Attach additional pages if necessary.

Equipment Number	Make Model & Serial Number	How Many?	Date Of Manufacture	Maximum Design Throughput	Exhaust To	
					Air	Control
	See Table 1 - Equipment List					

Continued On Next Page





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## NON-TITLE V PERMIT APPLICATION

### SECTION K-1. CONCRETE BATCH PLANTS - CONTINUED

4. Maximum Capacity Of Concrete Batch Plant (tons/hr): 280

5. Number Of Conveyors: 3

6. Control Devices. (Attach an Operation And Maintenance Plan for each control device)

Equipment Number	Equipment Controlled <sup>1</sup>	Type of Device	Make, Model & Serial Number	Maximum Design Air Flow Rate (cfm)	Control Efficiency <sup>2</sup> (% Weight)
			See Table 1 - Equipment List		

<sup>1</sup> Specify the equipment number from item 4, column 1 for the piece of equipment whose emissions are being controlled by the device.

<sup>2</sup> Provide written documentation of control efficiency (e.g., manufacturer's data or actual test data).

7. Vehicle Travel On Unpaved Roads. Indicate the number of miles traveled on-site annually on unpaved roads for each speed and vehicle class specified below.

Vehicle Type	Vehicle Miles Traveled Annually (VMT)			
	10 MPH	15 MPH	20 MPH	Other Speed: _____
Light Duty (e.g., pickup trucks, cars)		30,000		
Medium Duty (e.g., front end loaders, fork lifts)		10,000		
Heavy Duty (e.g., haul trucks, cranes)				

Continue To Section K-4



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## NON-TITLE V PERMIT APPLICATION

### SECTION K-4. NON-METALLIC MINERAL PROCESSING - CONTINUED

Applicants Completing Sections K-1, K-2, Or K-3 Must Also Complete This Section.

1. Maximum Number Of Aggregate, Mixer, And/or Batch Trucks Exiting The Facility On Any Day: 350
2. Number Of Acres Of Sand And Aggregate Storage Piles: \_\_\_\_\_
3. Number Of Acres Of Disturbed Surface Area At The Site<sup>1</sup>: 3
4. Is the facility a stationary source that is located contiguous or adjacent to another facility with an MCAQD or ADEQ air permit?

☒ Yes ☐ No

- a. If the answer to 4 is Yes, are the facilities under common control?<sup>2</sup> ☐ Yes ☒ No
- b. If the answer to 4a is Yes, are the facilities part of the same industrial grouping (having the same two-digit SIC code) or is there a support relationship between the two facilities?<sup>3</sup> ☐ Yes ☐ No
- c. If the answers to 4, 4a and 4b are Yes, list the collocated business(es):

Business Name: Western Aggregate Address: 31805 West Southern Avenue, Buckeye, AZ

Business Name: Address:

#### NOTES:

<sup>1</sup> DISTURBED SURFACE AREA is defined as a portion of the earth's surface (or material placed thereupon) which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed native condition, thereby increasing the potential for the emission of fugitive dust.

<sup>2</sup> COMMON CONTROL is determined on a case-by-case basis, and can be established by common ownership, decision-making authority, or a contract-for-service relationship or support/dependency relationship.

<sup>3</sup> SUPPORT FACILITIES are considered to be part of the same industrial grouping as that of the primary facility it supports even if the support facility has a different two digit SIC code. Support facilities are typically those which convey, store, or otherwise assist in the production of the principal product.

5. Vehicle Travel On Unpaved Roads. Indicate the number of miles traveled on-site annually on unpaved roads for each speed and vehicle class specified below.

Vehicle Type	Vehicle Miles Traveled Annually (VMT)			
	10 MPH	15 MPH	20 MPH	Other Speed:
Light Duty (e.g., pickup trucks, cars)		30,000		
Medium Duty (e.g., front end loaders, fork lifts)		10,000		
Heavy Duty (e.g., haul trucks, cranes)				

#### 6. PORTABLE SOURCE: LOCATION OF OPERATION

If the facility is a portable source, please list the address(es) of operation for the previous 5 year period

Dates		Address or Driving Directions
From	To	
2/2011	Present	Current location/equipment was permitted to Fort McDowell Yavapai Materials.



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## NON-TITLE V PERMIT APPLICATION

### SECTION Z. AIR POLLUTANT EMISSIONS

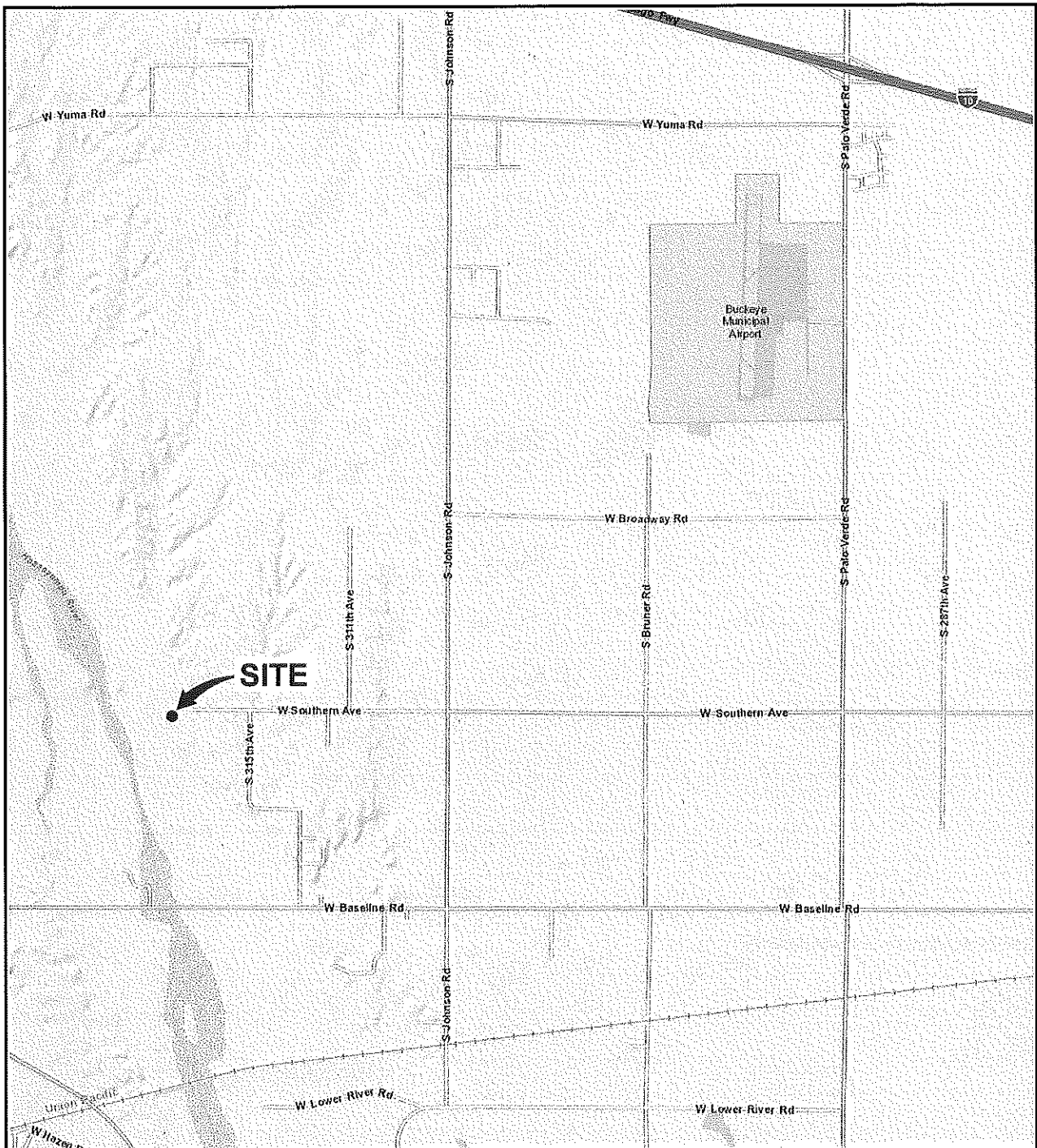
Provide a summary of the projected actual air emissions on an annual basis for the entire site in the following summary tables. Attach detailed calculations to support the figures. **If supporting calculations are not included with the application, the application will be deemed incomplete.**

Pollutant	Emissions (lb/yr)
Carbon Monoxide (CO)	9,401
Oxides Of Nitrogen (NO <sub>x</sub> )	42,537
Oxides Of Sulfur (SO <sub>x</sub> )	2,845
Particulates Of 10 Microns Or Smaller (PM <sub>10</sub> )	7,280
Total Suspended Particulates (TSP), Including PM <sub>10</sub>	15,782
Volatile Organic Compounds (VOCs) <sup>1</sup>	3,387
Lead	0
Federal hazardous air pollutants (list each one separately):	
Total HAPs: See List on Table 4	5
<sup>1</sup> VOCs are defined by EPA at: <a href="http://www.epa.gov/ttn/naaqs/ozone/ozonetech/def_voc.htm">http://www.epa.gov/ttn/naaqs/ozone/ozonetech/def_voc.htm</a>	
Do not include the emissions from motor vehicles. Include the emissions from stationary sources, portable sources, test areas, experimental facilities, evaporative losses, storage and handling losses, fuel loading and unloading losses, etc. Specifically identify the following in detailed calculations:	
1. Emissions From Each Point Source And Each Stack	4. Overall Efficiencies
2. Capture Efficiencies	5. Fugitive Emissions
3. Control Efficiencies	6. Non-point (area) Emissions

For particulate (dust) emissions, describe the types of particulates being emitted and the quantities of emissions for each type. Whenever a material is identified by a trade name, also provide its generic name and its chemical abstract service (CAS) number.

Help sheets for calculating emissions from specific industries or processes can be obtained at:  
[http://www.maricopa.gov/aq/divisions/planning\\_analysis/emissions\\_inventory/instructions.aspx](http://www.maricopa.gov/aq/divisions/planning_analysis/emissions_inventory/instructions.aspx)

If you need help completing the application package, please see our website or contact 602-506-5102.  
<http://www.maricopa.gov/aq>



MAP SOURCE: ESRI WORLD IMAGERY, UNKNOWN DATE

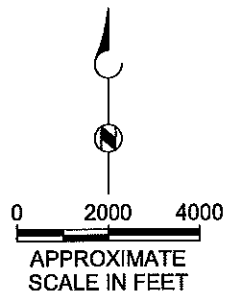
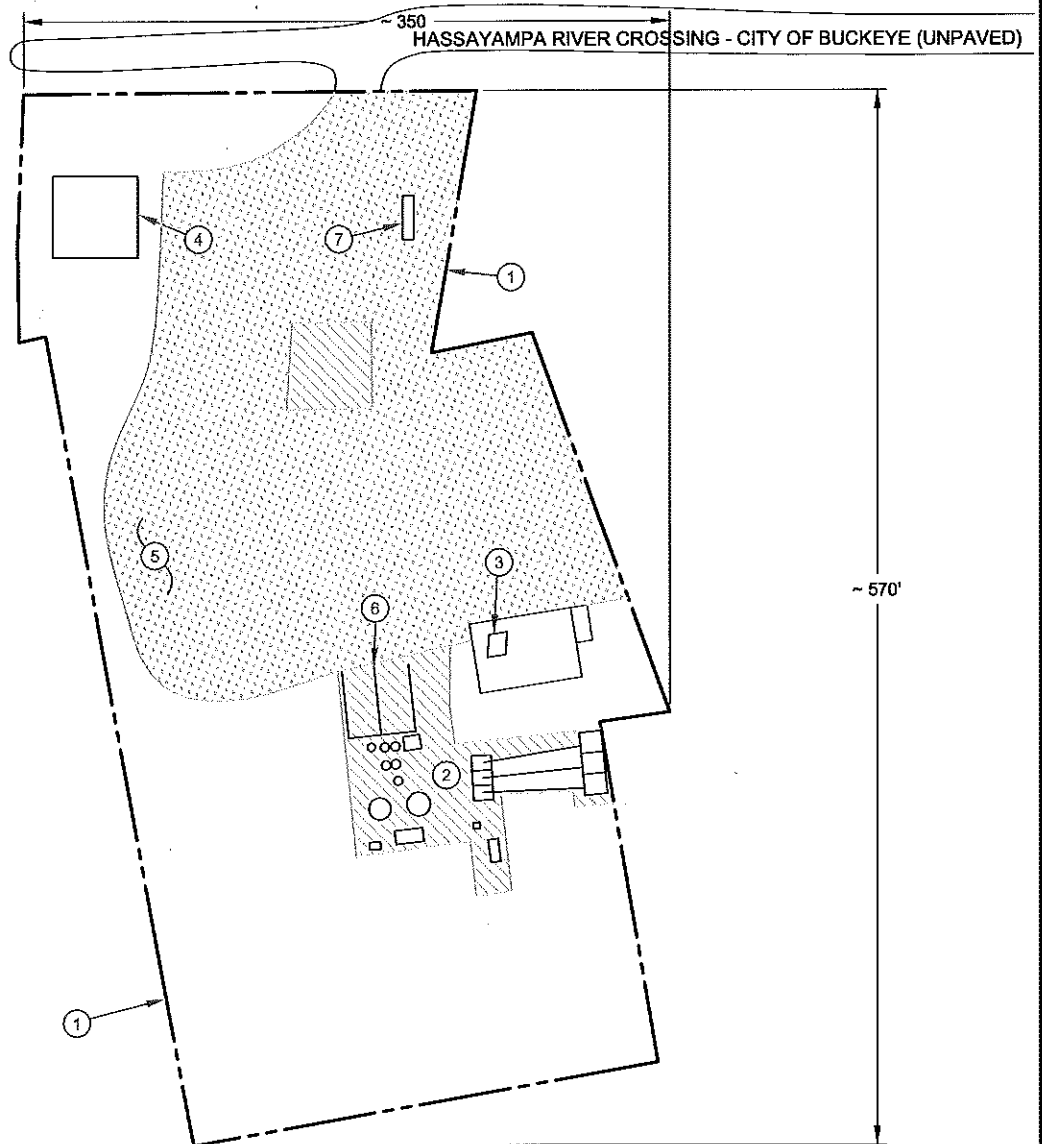
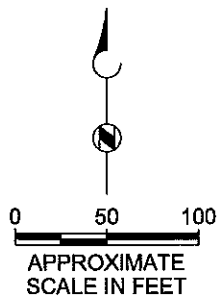




Figure 1  
**VICINITY MAP**  
**BUCKEYE PLANT**  
 31805 W. SOUTHERN AVE.  
 BUCKEYE, ARIZONA



### EXPLANATION

- ① CALPORTLAND FACILITIES
- ② BATCH PLANT
- ③ BATCH OFFICE
- ④ SHOP
- ⑤ TRUCK PARKING
- ⑥ TRUCK WASH OUT AREA
- ⑦ FUEL

-  HARD COHESIVE SURFACE  
(GRAVEL / DUST SUPPRESSANT)
-  PAVED AREAS

**Brown AND  
Caldwell**

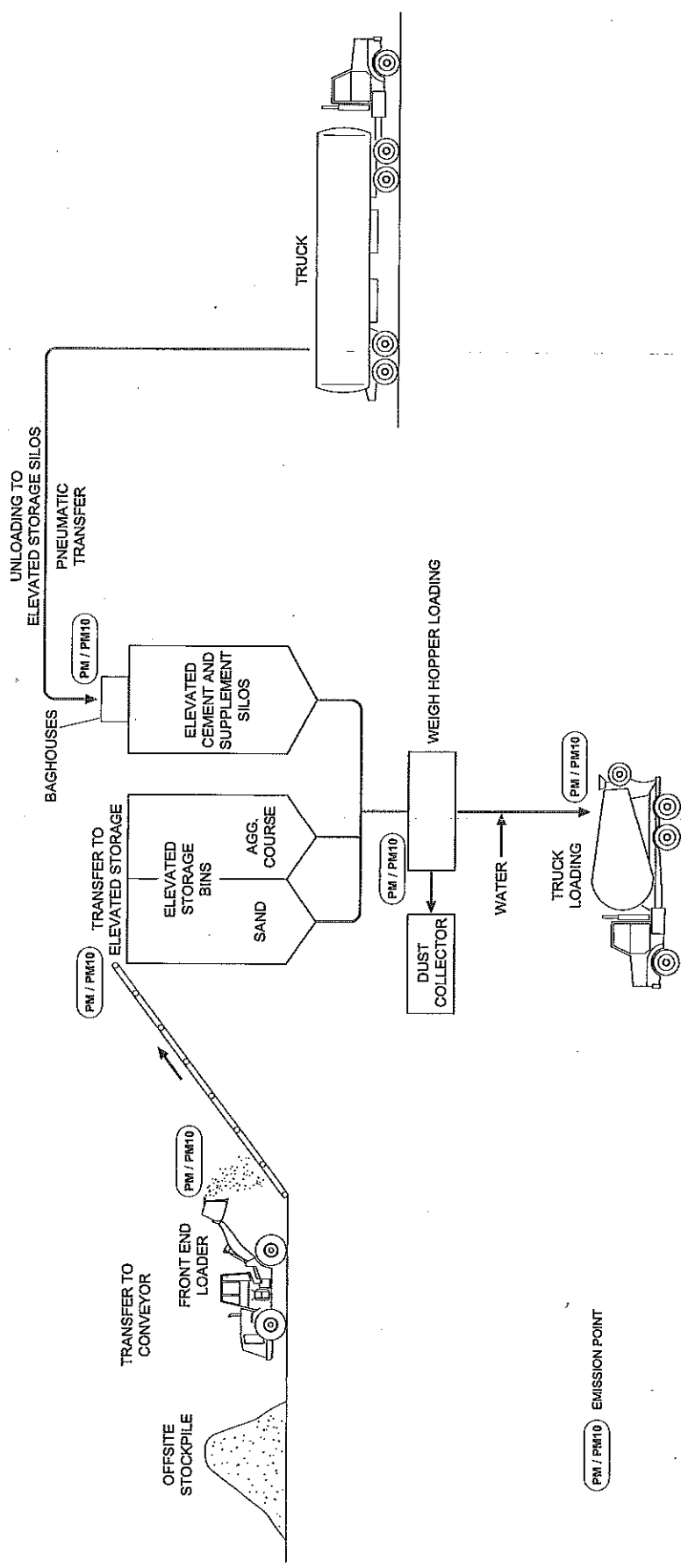
TOTAL DISTURBED AREA: APPROX. 3.3 ACRES



**CALPORTLAND**

Figure 2

**SITE PLAN  
BUCKEYE PLANT**  
31805 W. SOUTHERN AVE.  
BUCKEYE, ARIZONA



CALPORTLAND

Figure 3

PROCESS DIAGRAM  
BUCKEYE PLANT  
31805 W. SOUTHERN AVE.  
BUCKEYE, ARIZONA



Table 1. Equipment List

Equip ID#	Type of Equipment	Make	Model	S/N	Year	Capacity/Efficiency
Processing Equipment (Concrete Batch Plant)						
701	Concrete Batch Plant	R&S Industries	12 YD Apache	UCONW136CONV	2007	140 cyd/hr / 196 TPH
301	Cement Silo	R&S Industries	-	UCONW136CONV	2007	90 Tons
302	Flyash Silo	R&S Industries	-	UCONW136CONV	2007	42 Tons
303	Super Silo (Cement)	R&S Industries	1012	7008 C	2006	150 Tons
Guppy	Guppy	Generic	-	-	-	150 Tons
501	Aggregate Scale	R&S Industries	12 YD Apache	UCONW136CONV	2007	198 TPH
800	Conveyor & Bin	R&S Industries	12 YD Apache	UCONW136CONV	2007	100 TPH
801	Conveyor & Bin	R&S Industries	12 YD Apache	UCONW136CONV	2007	86 TPH
802	Conveyor & Bin	R&S Industries	12 YD Apache	UCONW136CONV	2007	12 TPH
803	Aggregate Bin	R&S Industries	12 YD Apache	UCONW136CONV	2007	198 TPH
901	Propane Water Heater	Keneco	RM	-	2007	4.5 MMBTU/hr
201	Genset	Caterpillar	KVA 456 KW 365	X4R00115	2006	563 HP
Control Equipment						
301B	Baghouse (Cement)	R&S Industries	-	-	2007	1,000 cfm, 99.9%
302B	Baghouse (Flyash)	R&S Industries	-	-	2007	1,000 cfm, 99.9%
303B	Baghouse (Cement)	R&S Industries	-	-	2006	1,000 cfm, 99.9%
101	Central Dust Collector	R&S Industries	PJB 1100 DC	7008 D	2007	6700 cfm 99.9%
Insignificant Activity						
Fuel Tank	Diesel Fuel Tank	-	-	-	-	10,000 gallon
902	Chiller	Trane	-	U07D03574	-	80 Ton

Brown and Caldwell

Table 2. Estimated Emissions from Fuel Burning Equipment

Source	Fuel Usage gal/yr	Pollutant	Emission Factor lb/Mgal	Emissions lbs/yr	Emissions ton/yr
Water Heater (Propane)	50,000	CO	7.5	375.0	0.188
	50,000	NOX	13	650.0	0.325
	50,000	SOX	1.5	75.0	0.038
	50,000	PM10	0.7	35.0	0.018
	50,000	PM	0.7	35.0	0.018
	50,000	VOC	1.0	50.0	0.025

Emission Factors are based on AP-42 Chapter 1.5.

Table 3. Estimated Emissions from Internal Combustion Engine

Source	Capacity hp	Pollutant	Emission Factor lb/hp-hr	Emissions lbs/yr	Emissions tons/yr
Generator #1 (Diesel)	563	CO	0.00668	9,026	4.5
	563	NOX	0.031	41,887	20.9
	563	SOX	0.00205	2,770	1.4
	563	PM10	0.00220	2,973	1.5
	563	PM	0.00220	2,973	1.5
	563	VOC	0.00247	3,337	1.7

Emission Factors are based on AP-42 Chapter 3.3 for Generators.  
Based on 8 hours per day, 6 days per week, 50 weeks per year.



Table 4. Estimated Emissions from Batch Plant

Estimated Throughput					
	cyd/hr	cyd/day	cyd/yr	ton/hr	ton/day
Total	140	1,120	336,000	280	2,240
					672,000

Based on 8 hours per day, 6 days per week, 50 weeks per year.  
Average weight 2.0 tons/cyd.

Emission Estimates							
Source	Amount Processed (tons/yr)	Capture Efficiency	Control Efficiency	PM Emission Factor (lb/ton)	PM (lbs/yr)	PM10 Emission Factor (lb/ton)	PM10 (lbs/yr)
Sand to Ground Storage (36%)	241,920	100%	70%	0.0021	152	0.00099	72
Agg to Ground Storage (46%)	309,120	100%	70%	0.0069	640	0.0033	306
Sand to Conveyor	241,920	100%	70%	0.0021	152	0.00099	72
Agg to Conveyor	309,120	100%	70%	0.0069	640	0.0033	306
Sand to Bins	241,920	100%	70%	0.0021	152	0.00099	72
Agg to Bins	309,120	100%	70%	0.0069	640	0.0033	306
Cement to Silo (12%)	80,640	NA	NA	0.00099	80	0.00034	27
Flyash to Silo (2%)	13,440	NA	NA	0.0089	120	0.0049	66
Weigh Hopper Loading	551,040	70%	90%	0.0048	979	0.0028	571
Mixer Loading Central	0	NA	NA	0.0173	0	0.0048	0
Mixer Loading Truck	94,080	NA	NA	0.098	9,220	0.0263	2,474
				Total PM	12,775	Total PM10	4,272

Fugitive Emissions					
Source	Amount Processed (vmt/yr)	Capture Efficiency	Control Efficiency	PM Emission Factor (lb/ton)	PM (lbs/yr)
Light duty vehicles (miles)	30,000	100%	70%	0.44	3,960
Medium duty vehicles (miles)	10,000	100%	70%	0.86	2,580
Heavy duty vehicles (miles)	0	100%	70%	3.2	0
Storage Piles (acres)	0	100%	70%	630	0
				Total PM	6,540
				Total PM10	6,540

Emission Factors are based on AP-42 and Maricopa County Inventory Help Sheet for Concrete Batch Plants and for Unpaved Roads.  
Weigh Hopper Loading Controls Estimated.

Brown Caldwell

Table 4. Estimated Emissions from Batch Plant (cont)

HAP Emission Estimates						
Source	Amount Processed (tons/yr)		Cement Processing	Silo Filling (lbs/ton)	Central Mix Batching (lbs/ton)	Truck Loading (lbs/ton)
Arsenic	80,640			4.24E-09	2.96E-07	6.02E-07
Beryllium	80,640			4.86E-10	0	1.04E-07
Cadmium	80,640			0	7.10E-10	9.06E-09
Total Chromium	80,640			2.90E-08	1.27E-07	4.10E-06
Lead	80,640			1.09E-08	3.66E-08	1.53E-06
Manganese	80,640			1.17E-07	3.78E-06	2.08E-05
Nickel	80,640			4.18E-08	2.48E-07	4.78E-06
Total Phosphorus	80,640			0	1.20E-06	1.23E-05
Selenium	80,640			0	0	1.13E-07
Flyash (Cement Supplement) Processing						
Arsenic	13,440			1.00E-06	2.96E-07	6.02E-07
Beryllium	13,440			9.04E-08	0	1.04E-07
Cadmium	13,440			1.98E-10	7.10E-10	9.06E-09
Total Chromium	13,440			1.22E-06	1.27E-07	4.10E-06
Lead	13,440			5.20E-07	3.66E-08	1.53E-06
Manganese	13,440			2.56E-07	3.78E-06	2.08E-05
Nickel	13,440			2.28E-06	2.48E-07	4.78E-06
Total Phosphorus	13,440			3.54E-06	1.20E-06	1.23E-05
Selenium	13,440			7.24E-08	0	1.13E-07
						Total HAPS
						4.844

HAP Emissions = Amount Processed x (Silo Filling + Central Mix Batching + Truck Loading).

Table 5. Total Facility Estimated Emissions

Pollutant	Estimated Emissions (Excluding Fugitives)			BACT Thresholds		Major Source Thresholds
	Emissions lbs/day	Emissions lbs/yr	Emissions ton/yr	lbs/day	ton/yr	
CO	31	9,401	4.7	550	100	100
NOX	142	42,537	21	150	25	100
SOX	9.5	2,845	1.4	150	25	100
PM10	24	7,280	3.6	85	15	100
PM	53	15,782	7.9	150	25	100
VOC	11	3,387	1.7	150	25	100
HAPS	0.016	4.8	0.002	NA	NA	25

Sum of Tables 2, 3, and 4.



DUST CONTROL PLAN &  
OPERATION AND MAINTENANCE PLAN

READY MIX BATCH PLANT  
BUCKEYE PLANT

31805 WEST SOUTHERN AVENUE  
BUCKEYE, ARIZONA

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Prepared for  
CalPortland Company  
2400 N. Central Avenue, Suite 400  
Phoenix, Arizona

February 8, 2016

**Brown AND Caldwell**

201 E. Washington Street, Suite 500  
Phoenix, Arizona, 85004

# Maricopa County

**Air Quality Department**

Maricopa County Air Quality Department  
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Phone (602) 506-6010 Fax (602) 372-0587  
AOPermits@mail.maricopa.gov

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**Important:** Please note that email will be our primary means for routine communication with you, unless you do not have an email account. Please be sure that your email address is entered correctly.

Reserved for Control Officer

Reviewed by:

Rev #

## RULE 316 DUST CONTROL PLAN

Date of Request: 2/5/2016 Permit Number: Is this a Portable Permit? ☒ Yes ☐ No

Permit Holder: CalPortland Company

Facility Location: 31805 West Southern Ave. City: Buckeye State: AZ Zip: 85326

Is this a modification to a currently approved Dust Control Plan? ☒ Yes ☐ No

If Yes, please check the numbers of all sections in which changes occur:

☐ 1a ☐ 1b ☐ 1c ☐ 1d ☐ 1e ☐ 2a ☐ 2b ☐ 2c ☐ 2d ☐ 2e ☐ 2f ☐ 2g ☐ 2h ☐ 2i ☐ 2j ☐ 2k ☐ 2l  
☐ 2m ☐ 2n ☐ 2o ☐ 2p ☐ 2q ☐ 2r ☐ 2s ☐ 2t ☐ 2u ☐ 2w ☐ 2x ☐ 2y

Special Instructions: Updating permit to use newest forms.

**NOTE:** Equipment change may require a permit modification.

### Certification by a Responsible Official of the Applicant

A Responsible Official of the Applicant is the person who will be contacted or named in any enforcement action initiated by the Maricopa County Air Quality Department or the Maricopa County Attorney's Office. Pursuant to Rule 316, Sections 311 and 312, the signature on the Dust Control Plan shall constitute agreement to accept responsibility for meeting the conditions of the Dust Control Plan, for ensuring that control measures are implemented throughout the project site, and for providing timely notifications of any changes to the Plan.

Arizona Revised Statute §13-2704 makes it a criminal offense to knowingly make a false material statement to a public servant in connection with an application for any benefit, privilege, or license.

I hereby certify that, based on information and belief formed after reasonable inquiry, the statements and information in the Dust Control Plan are true, accurate, and complete.

Requested by (print name): Scott Hughes

**Title: Environmental Manager - Arizona/Nevada Region**

Signature:

Date: 2/8/2014

Application Completed by (If other than Signatory):

Print name:

Title:

Signature:

Date:

Phone: (602) 817-6927

Fax: (602) 817-6939

Email [shughes@calportland.com](mailto:shughes@calportland.com)



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### Section 1 – Applicant Information

#### 1(a) Applicant information:

Non-Title V Permit Number: \_\_\_\_\_ Submittal Date: \_\_\_\_\_  
Applicant name: CalPortland  
Mailing Address: 2400 N Central Ave Suite 400 City: Phoenix State: AZ Zip: 85004  
Facility location: 31805 W. Southern Ave City: Buckeye State: AZ Zip: 85326

#### 1(b) Person responsible for submitting the Dust Control Plan:

Applicant name: Scott Hughes Title: Environmental Manager - AZ/NV  
Address: 2400 N Central Ave Suite 400 City: Phoenix State: AZ Zip: 85004  
Phone numbers Office: (602) 817-6927 Cell: (520) 631-2267 Fax: (602) 817-6939

#### 1(c) Name(s) of person(s) responsible for the implementation of the Dust Control Plan:

Site Contact: Robert Cantu Title: Plant Manager  
Phone numbers Office: (602) 817-6945 Cell: (602) 318-8934 Fax: (602) 817-6939

#### 1(d) Fugitive dust control technician (§309):

- ☒ Yes ☐ No Does this facility have a rated or permitted capacity of 25 tons or more per hour?  
☐ Yes ☒ No Does this facility have five or more acres of disturbed surface?

If the answer to one or both of the questions above was Yes, then a fugitive dust control technician is required and the remainder of this section must be completed.

List names of all certified dust control technicians at the facility

Robert Cantu	Mark Wheeler	Add Row	Delete Row
Alfred Vasquez	Mario Valladares	Add Row	Delete Row
Jeff Campoy		Add Row	Delete Row

Initial to Indicate  
Requirement Met

#### Qualifications

SBH	Be authorized by the owner and/or operator of the facility to have full authority to ensure that fugitive dust control measures are implemented on-site and to conduct routine inspections, record keeping, and reporting
SBH	Be trained in accordance with the Comprehensive Dust Control Training Class and have a valid dust training certification identification card readily accessible on-site while acting as a Fugitive Dust Control Technician
SBH	Be authorized to install, maintain and use fugitive dust control measures, deploy resources, and shutdown or modify activities as needed
SBH	Be on-site at all times during primary dust generating operations related to the purposes for which the permit was obtained
SBH	Be certified to determine visible emissions in accordance with the provisions of the EPA Method 9 as specified in 40 CFR, Part 60, Appendix A
SBH	Ensure that the site superintendent or on-site representative, and water truck and water pull drivers have attended appropriate Dust Control Training class



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### Section 2 - Dust Control Plan

This plan is to be used for the site to indicate which fugitive dust control measures (or combination thereof) are to be applied to all actual and potential fugitive dust sources before, during and after any dust generating operations. Fugitive dust control measures shall be implemented to comply with Rule 316 and Rule 310 emissions limitation standards. If revisions to an approved dust control plan are needed, please resubmit the full dust control plan, with changed pages specified on the cover page.

SECTION 2 INSTRUCTIONS: Check P if a Primary Control Measure and C if a Contingency Control Measure. At least one Primary AND at least Contingency Control measure must be checked unless otherwise indicated. If the Primary Control Measure is water application, the Contingency cannot be water application. If Control Measures do not apply, explain why. Note: Ceasing operations does not relieve obligation to comply with control measures or defend failure to apply them.

#### 2(a)-2(d) Open Storage Piles and Material Handling (§307.1)

##### 2(a) Prior to and/or while conducting loading and unloading operations (§307.1a):

Indicate at least one Primary and one Contingency Measure

- ☒ P ☐ C Spray material with water, as necessary  
☐ P ☐ C Spray material with a dust suppressant other than water, as necessary (List supplements at end of plan)  
☒ C Cease operations until emission and stability standards are met  
☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

Lessor Western Aggregate is responsible for all material storage piles.

or, explain why this control measure is not applicable: CalPortland will cease operation if standards are not being met.

##### 2(b) When not conducting stacking, loading, and/or unloading operations (§307.1b):

Indicate at least one Primary and one Contingency Measure

- ☐ P ☐ C Spray material with water, as necessary  
☐ P ☐ C Maintain a 1.5% or more soil moisture content of the open storage pile(s)  
☐ P ☐ C Locate open storage pile(s) in a pit/in the bottom of a pit  
☐ P ☐ C Arrange open storage pile(s) such that storage pile(s) of larger diameter products are on the perimeter  
☐ P ☐ C Construct and maintain wind barriers, storage silos, or a three sided enclosure  
☐ P ☐ C Cover open storage piles with tarps, plastic, or other material  
☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

Lessor Western Aggregate is responsible for all material storage piles.

or, explain why this control measure is not applicable: CalPortland will cease operation if standards are not being met.

##### 2(c) When installing new open storage pile(s) (§307.1c):

- ☒ P (Required) Install the open storage pile(s) at least 25 feet from the property line  
☒ P (Required) Limit the height of the open storage pile(s) to less than 45 feet  
☐ P ☐ C Other (not listed) measures taken so that the standards in Rule 316 and 310 are met (Must be approved by Control Officer)

Lessor Western Aggregate is responsible for all material storage piles.

or, explain why this control measure is not applicable: CalPortland will cease operation if standards are not being met.





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### 2(d) Existing open storage pile(s) & when installing open storage pile(s) over 8 feet high that will not be covered (§307.1d):

Indicate at least one Primary and one Contingency Measure

- ☐ P ☐ C Install, use, and maintain a water truck  
☐ P ☐ C Other method that is capable of completely wetting the surfaces of open storage pile(s) (Indicate below)  
☐ Sprinkler ☐ Irrigation Other: \_\_\_\_\_  
☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

or, explain why this control measure is not applicable: Lessor Western Aggregate is responsible for all material storage piles. CalPortland will cease operation if standards are not being met.

### 2(e) Surface stabilization where support equipment and vehicles operate (§307.2)

**Does not include permanent or non-permanent roadways**

Indicate at least one Primary and one Contingency Measure

- ☒ P ☐ C Apply and maintain water  
☐ P ☒ C Apply and maintain a dust suppressant, other than water (List suppressants at end of plan)  
☐ P ☒ C Apply a gravel pad  
☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

or, explain why this control measure is not applicable: \_\_\_\_\_

### 2(f) Haul/access roads that are not in permanent areas of a facility (§307.3)

If the facility meets the definition of a new facility complete both 2(f)(1) & 2(f)(2). Otherwise, complete 2(f)(1) and skip 2(f)(2).  
A New Facility is defined (§233) as: A facility subject to this rule that has not been operated by such facility prior to June 8, 2005.

☐ Yes ☒ No Does this facility meet the definition of a New Facility?

### 2(f)(1) Haul/access roads that are not in permanent areas of a facility (§307.3a):

Indicate at least one Primary and one Contingency Measure

- ☐ P ☒ C Install and maintain bumps, humps, or dips for speed control and apply water  
☒ P ☐ C Limit vehicle speeds and apply water  
☐ P ☐ C Pave  
☐ P ☒ C Apply and maintain a gravel pad  
☐ P ☐ C Apply a dust suppressant, other than water  
☐ P ☒ C Install and maintain a cohesive hard surface

or, explain why this control measure is not applicable: Site does not have any impermanent areas. Haul/access roads are covered under On-Site Traffic Section 2(g).



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### 2(g) On-site traffic (§307.4)

#### Indicate Primary and Contingency Measures

- ☒ P ☒ (Required) Batch and material delivery trucks remain on internal roads with paved surfaces or cohesive hard surfaces in the permanent areas of the facility/operation
- ☒ P ☒ (Required) Aggregate trucks remain on paved surfaces or cohesive hard surfaces
- ☒ P ☒ (Required) All batch trucks and material delivery trucks exit the facility/operation through exits with approved TOCD
- ☒ P ☒ (Required) Pave or install a cohesive hard surface on permanent areas of a facility on which vehicles drive
- ☒ C Cease operations until emission and stability standards are met
- ☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

or, explain why this control measure is not applicable: \_\_\_\_\_

### 2(h) Off-site traffic (§307.5)

#### Indicate Primary and Contingency Measures

- ☒ P ☒ (Required) Load all haul trucks such that the freeboard is not less than three inches
- ☒ P ☒ (Required) Prevent spillage or loss of bulk material from holes or other openings in the cargo compartment's floor, sides, and/or tailgate(s)
- ☒ P ☒ (Required) Cover haul trucks with a tarp or other suitable closure
- ☒ C Cease operations until emission and stability standards are met
- ☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

or, explain why this control measure is not applicable: Facility is a batch plant. All associated vehicles are enclosed tankers or cement trucks with no open beds.



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### 2(i)-2(l) Trackout

#### 2(i) Track out control device (§307.6):

☒ Yes ☐ No Do 60 or more trucks exit this facility each day? If Yes, complete 2(i)(1). If No, complete 2(i)(2).

#### 2(i)(1) Facilities with 60 or more trucks exiting each day

Indicate at least one Primary and one Contingency Measure (If claiming Wheel Wash Exemption, complete section 2(j).)

☐ P ☐ C Install and maintain (check one item in each column)(§307.6a):

✓ EXIT

AND ✓ WASH DEVICE

AND ✓ SHAKE DEVICE

☒ Pave

☒ Wheel Washer

☐ Rumble Grate

☐ Stabilized Gravel Pad

☐ Vehicle Wash

☐ Cosmetic Wash

☐ Wheel Wash Exemption

☒ C Cease operations until trackout standards (§307.6d) are met

☒ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

Site access is via a City of Buckeye's dirt road. The City of Buckeye's dirt road meets up to county paved road.

#### 2(i)(2) Facilities fewer than 60 trucks exiting each day

Indicate at least one Primary and one Contingency Measure

☐ P ☐ C Install and maintain (check one item in each column)(§307.6b):

✓ EXIT

AND ✓ DEVICE

☒ Pave

☒ Rumble Grate

☐ Stabilized Gravel Pad

☐ Wheel Washer

☐ Truck Washer

☒ C Cease operations until trackout standards (§307.6d) are met

☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

#### 2(j) Indicate which wheel wash exemption, if any, below (Check only one) (§307.6c):

Exempt?

☒ No Not claiming a wheel wash exemption

☐ Yes Facility has all paved internal roads and meters aggregate or related materials directly to a ready mix or hot mix asphalt truck

☐ Yes A facility is less than five acres in land size and handles recycled asphalt and recycled concrete exclusively

☐ Yes A facility has a minimum of ¼ mile paved internal roads leading from a rumble grate to the facility exits

☐ Yes A facility meets the definition of infrequent operations, as defined in Rule 316 Section 230



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### 2(k) Cleaning trackout (§307.6d):

#### Indicate Required Measures

- ☒ P ☒ (Required) Clean trackout immediately when it extends 25 feet or more  
☒ P ☒ (Required) Clean all trackout at the end of the workday

#### Indicate at least one Primary and one Contingency Measure

- ☐ P ☐ C Manually sweep  
☐ P ☐ C Street sweeper  
☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

or, explain why this control measure is not applicable: Western Aggregate is responsible for cleaning facility trackout. CalPortland will cease operation if standards are not being met.

### 2(l) Cleaning paved roads (§307.6e):

#### Indicate at least one Primary Measure

- ☒ P ☒ (Required) Facilities with a minimum 60 trucks: Sweep the paved roads with a street sweeper by the end of each production work shift, if there is 12 or more feet of bulk material present (§307.6e(1))  
☒ P ☒ (Required) Facilities with less than 60 trucks: Sweep the paved roads with a street sweeper by the end of every other work day (§307.6e(2))  
☐ P Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

or, explain why this control measure is not applicable: Lessor Western Aggregate is responsible for maintaining internal roads. None are paved. CalPortland will cease operation if standards are not being met.

### 2(m) Pad construction (§307.7)

#### Indicate Primary and Contingency Measures

- ☒ P ☒ (Required) Maintain, and use fugitive dust control measures during the construction of, pads for processing equipment.  
☒ C Cease operations until trackout standards (§307.6d) are met  
☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

or, explain why this control measure is not applicable:

### 2(n) Spillage (§307.8)

#### Indicate Primary and Contingency Measures

- ☒ P ☐ C Promptly remove any pile of spillage on paved haul/access roads/paved roads  
☐ P ☒ C Maintain in a stabilized condition any pile of spillage on paved haul/access roads or other paved roads and remove such pile by the end of each day, and maintain in a stabilized condition all piles of spillage until removal.  
☐ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

or, explain why this control measure is not applicable:

### 2(o) Night-Time Operations (§307.9)

- ☒ Yes ☐ No Does this facility operate at night? (If No, go to 2(p). If Yes, continue below.)

#### Night-Time Operations Questions



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☐ Yes ☒ No Are there addition attachments for nighttime operations? (Attach nighttime supplemental to dust control plan if different from daylight operations)

☐ P ☐ C Additional measures:

☒ P ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

Night operations use same control measures as Day operations.

### 2(p) Crushing and/or Screening (§301)

☐ Yes ☒ No Are crushing and/or screening operations associated with this permit? (If No, go to 2(q). If Yes, continue below.)

### 2(q) Asphaltic Concrete Plants (§302)

☐ Yes ☒ No Are Asphaltic Concrete Operations associated with this permit? (If No, go to 2(r). If Yes, continue below.)

### 2(r) Raw Material Storage & Distribution, Concrete Plants, and/or Bagging Operations (§303)

☒ Yes ☐ No Are raw material storage and distribution, concrete plants, and/or bagging operations associated with this permit? (If No, go to 2(s). If Yes, continue below)

Check all that apply

☒ Yes ☐ No Install an operational overflow warning system/device

☒ Yes ☐ No Install a properly sized fabric filter baghouse or equivalent device designed to meet a maximum outlet grain loading of 0.01 gr/dscf on all cement, lime and/or fly ash storage silos that began operation on or after June 8, 2005

☒ Yes ☐ No On dry mix concrete plant loading stations/truck mixed product, implement one of the following process controls [check one or more]:

√ Control

☐ Install a rubber fill tube

☐ Install a water spray

☒ Baghouse or delivery system

☐ Enclose mixer loading stations

☐ Conduct mixer loading stations in an enclosed process building

☒ Yes ☐ No On cement silo filling processing/loading operations controls, install a pressure control system designed to shut off cement silo filling processes/loading operations

☒ ☐ C Other (not listed) measures taken so that the standards are met (Must be approved by Control Officer)

### 2(s) Weed Abatement (R310 §305.8)

☐ Yes ☒ No Will there be any weed abatement operations associated with this permit? (If No, go to 2(t). If Yes, continue below.)

### 2(t) Blasting (R310 §305.9)

☐ Yes ☒ No Are any blasting operations associated with this permit? (If No, go to 2(u). If Yes, continue below.)

### 2(u) Demolition (owner operator is responsible for any NESHAP requirements) (R310 §305.10)



# Maricopa County

Air Quality Department

Maricopa County Air Quality Department  
1001 N Central Ave, Suite 125, Phoenix, AZ 85004  
Phone (602) 506-6010 Fax (602) 372-0587  
AQPermits@mail.maricopa.gov

## RULE 316 DUST CONTROL PLAN

Plans may be submitted in person at: 1001 N. Central Ave. Suite 125, Phoenix, AZ 85004; or at 501 N. 44th Street, Suite 200, Phoenix, AZ 85008.  
Plans may also be submitted by email at: [AQPermits@mail.maricopa.gov](mailto:AQPermits@mail.maricopa.gov)

Demolition activities are the wrecking and/or removal of any supporting structural member of a facility and any related handling operations. They include activities such as removal of walls, stucco, concrete, freestanding structures, buildings, load-bearing walls, and transite pipes.

☐ Yes ☒ No Are demolition operations associated with this permit? (If No, go to 2(v). If Yes, continue below.)

### 2(v)-2(w) Soil Moisture Testing (Rule 316 §502)

#### 2(v) Soil Moisture Testing (§502):

This basic moisture testing protocol may be revised through the submittal and approval of alternative demonstrations or justifications.  
Note: The results of all moisture tests must be recorded to the nearest tenth of a percent.

#### 2(v)(1) Soil Moisture Testing Exemptions

☐ Yes ☒ No Does the facility conduct crushing and/or screening operations containing any aggregate material less than 0.25 inches in diameter? (§502.3f)  
If No, go to 2(x). If Yes, continue below.

### 2(x) Dust suppressants

Attach product specification information for all products to be applied

Products to be applied	Method, frequency and intensity application		
Magnesium Chloride	Additive to distributor truck, twice a year at rate of 0.25-0.5 per sq yd.	Add Another Row	Delete Row
(32% concentration)	Southwester Sealcoating 888-663-8781	Add Another Row	Delete Row

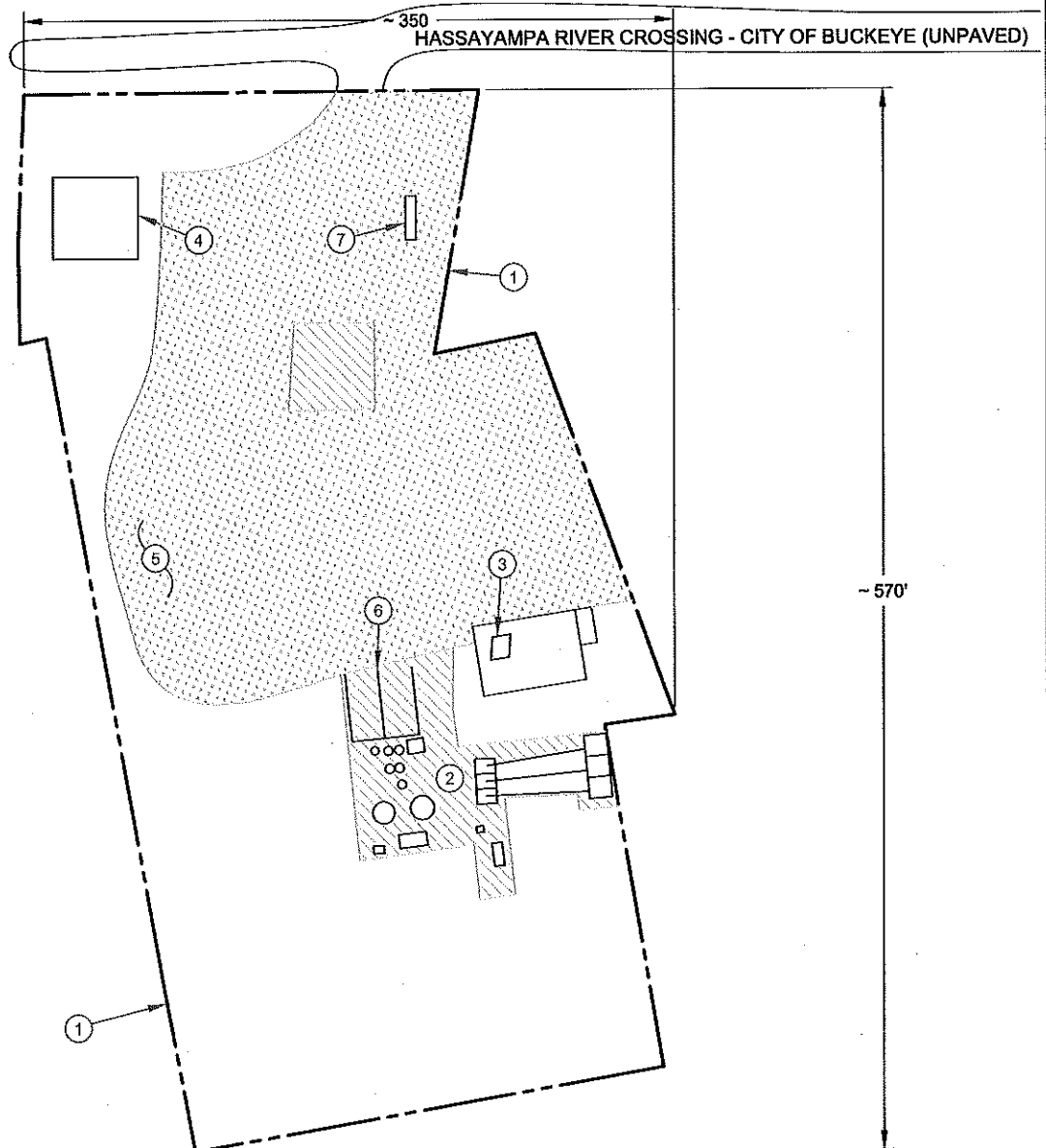
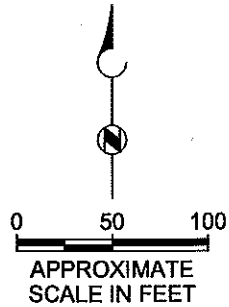
Application equipment

Type	Quantity	Capacity	Serial Number		
Distributor Truck with automated	1	3500 gallons		Add Another Row	Delete Row
rate control spray bar				Add Another Row	Delete Row

### 2(y) Map

A Dust Control Plan will not be approved unless a drawing is submitted. Attach a separate (8 1/2" x 11") page with a drawing showing all of the following element:

- Property boundaries and project site boundaries with linear dimensions
- Nearest public cross roads with streets names
- Identify staging areas, areas for stockpiles, haul roads, access roads, storage and parking areas, and permanent areas of site.
- Identify paved areas and cohesive hard surfaces.
- Exit locations, with type of track out control equipment and dimensions
- North arrow
- Acres to be disturbed



### EXPLANATION

- ① CALPORTLAND FACILITIES
- ② BATCH PLANT
- ③ BATCH OFFICE
- ④ SHOP
- ⑤ TRUCK PARKING
- ⑥ TRUCK WASH OUT AREA
- ⑦ FUEL AST

- HARD COHESIVE SURFACE  
(GRAVEL / DUST SUPPRESSANT)
- PAVED AREAS



TOTAL DISTURBED AREA: APPROX. 3.3 ACRES



Figure 1  
SITE PLAN  
BUCKEYE PLANT  
31805 W. SOUTHERN AVE.  
BUCKEYE, ARIZONA





# OPERATION AND MAINTENANCE PLAN

## READY MIX BATCH PLANT BUCKEYE PLANT

31805 WEST SOUTHERN AVENUE  
BUCKEYE, ARIZONA

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Prepared for  
CalPortland Company  
2400 N. Central Avenue, Suite 400  
Phoenix, Arizona

February 8, 2016



201 E. Washington Street, Suite 500  
Phoenix, Arizona, 85004



**Maricopa County**  
Air Quality Department

**Operation & Maintenance Plan**

RESERVED FOR CONTROL OFFICER	
Reviewed by:	Rev #

**RULE 316 Operation & Maintenance Plan**

Date of Request: February 5, 2016
Permit Number:
Is this a Portable Permit <input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Permit Holder: CaiPortland
Project Location: 31805 W. Southern Ave., Buckeye, AZ 85326
Reason for Change: New Permit
<b>Submission of this plan indicates that all information is truthful, accurate, and complete.</b>
Requested by: (Print) Scott Hughes
(Signature)
1. Special Instructions:
2. Attach page change
Equipment change may require a permit modification.
<b>Fax:</b> 602-506-0586 <b>Mail :</b> 1001 N. Central Ave, Ste 125, Phoenix, AZ 85004
<b>Email</b> AQPermits@mail.maricopa.gov

(Information provided on this Dust Control Plan indicates minimal requirements of the Air Quality Rules 316 and other associated operations; additional space is provided for requirements not listed.)

## Form GENERAL INFORMATION

Business Name: CalPortland - Buckeye Plant

Permit Number: \_\_\_\_\_

Date of Preparation/Revision: Feb. 5, 2016

**General description of overall facility operations:**

The CalPortland Buckeye facility produces ready mix concrete from aggregate, sand, cement, and fly ash. These materials are weighed and loaded in a transit mix haul trucks where water is added to the mix. This product is delivered to off-site users. All raw materials are produced and delivered on site by the property owner, Western Aggregate.

**Brief description of process(es) ducted to control device including pollutants emitted:**

The batch plant has dust control systems to control PM and PM10.

1. One dust collector to control the transfer of concrete mix to transit mix trucks.
2. Three baghouses to capture emissions from the delivery / transfer of cement and flyash to the storage silos.

**Complete description of control device(s) covered by the plan including manufacturer, model, rated capacity, total number of identical units, equipment identification number, etc.:**

1. Dust collector: R&S Industries, PJB 1100 DC, 6700 CFM. Equipment ID # 101.
2. 3 Silo baghouses, R&S Industries, 2 - 1,000 CFM cement, 1- 1,000 CFM flyash.
3. Pressure control valves, generic, 0 - 13 PSI.
4. Overflow indicator, Generic, 0 - 95% silo capacity

**Form OPERATION PLAN**

List the operating parameters to be monitored including the units of measure (inches H<sub>2</sub>O, deg F, gpm, etc.), acceptable operating range (upper and/or lower limits), and frequency of recording measurements (daily, continuous, etc.)

PARAMETER	UNITS	LIMITS	FREQUENCY
Dust Collector Pressure	Inches of H <sub>2</sub> O	2 - 8	Daily
Baghouse Opacity	Percent	0 - 5	Daily
Pressure Control Valve	PSI	0 - 13	During Silo Loading
Overflow Indicator	Percent Silo Capacity	0 - 95	During Silo Loading

List the method of recording measurements (manual, stripchart recorder, data acquisition system, etc.) and type of instrumentation (magnehelic, temperature sensor, flowmeter, etc.) with display range for each operating parameter:

PARAMETER	METHOD	INSTRUMENT	RANGE
Dust Collector Pressure	Manual Reading	Pressure Gauge	0 - 10
Baghouse Opacity	Visual Observation	N/A	0 - 100%
Pressure Control Valve	Automatic Control	Check Valve	0 - 13
Overflow Indicator	Automatic Control	Moving Wand in Silo	0 - 95%

**Attach a copy of all operations log sheets, stripcharts, computer printouts, etc. utilized to document operating parameters of the control device.**

Note: Instrumentation accuracy is expected to be comparable to industry standard for the specific type of instrumentation. Acceptable operating ranges may require modifications to reflect actual conditions during compliance testing. A log sheet must be completed for every day the process and control device are in operation. Records are required to be maintained for a minimum of five years.

# Form MAINTENANCE PLAN

Maintenance procedures to be performed with the frequency of each procedure:

[illegible]

Attach a copy of all maintenance checklists, computer printouts, etc. utilized to document completion of maintenance procedures performed on the control device.

Notes: The spare parts inventory should be sufficient to handle all maintenance requirements and reasonably expected malfunction corrections. Records are required to be maintained for a minimum of five years.

# DAILY PRODUCTION, SAFETY, & ENVIRONMENTAL REPORT

DATE \_\_\_\_\_ LOCATION \_\_\_\_\_  
 PLANT \_\_\_\_\_ SHIFT-Circle 1st or 2nd \_\_\_\_\_ 1ST \_\_\_\_\_ 2ND \_\_\_\_\_

HOURS	PLANT	PLANT	PLANT	PLANT	
END					
BEGIN					
TOTAL HOURS					
PRODUCTION	PLANT	PLANT	PLANT	TONS	
END				TICKETED	
BEGIN				BATCHED	
TOTAL				LOST	

**INITIAL CHECK DAILY THE SAFE CONDITION OF ITEMS LISTED BELOW.**

- |   |  |
|---|--|
| _____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____ | 1 SECONDARY CONTAINMENTS CHECKED DAILY<br>2 HOUSEKEEPING Facility appearance is in good shape.<br>3 PERSONAL PROTECTIVE EQUIPMENT AVAILABLE<br>4 FIRE EXTINGUISHERS AVAILABLE<br>5 FIRST AID KITS STOCKED/IF APPLICABLE, EYE WASH STATIONS OPERATIONAL<br>6 ELECTRICAL CONTROL BOXES CLOSED<br>7 GUARDS IN PLACE<br>8 LIGHTING FIXTURES WORKING PROPERLY<br>9 AUDIBLE WARNING DEVICES WORKING<br>10 MOBILE EQUIPMENT PRE-CHECK<br>11 ALL GROUND DEVICES INTACT |
|---|--|

**INITIAL ENVIRONMENTAL COMPLIANCE CHECK**

- |                                  |   |
|----------------------------------|---|
| _____<br>_____<br>_____<br>_____ | 1 Dust Collector Pressure Drop in inches of H2O (DAILY)<br>2 Cement and Fly Ash baghouses checked visually (DAILY)<br>3 Inspect Bags, Air system and Damper Operations (WEEKLY)<br>4 Check silo bindicators (Monthly) |
|----------------------------------|---|

Date Completed: \_\_\_\_\_

Date Completed: \_\_\_\_\_

**VISIBLE EMISSIONS FROM BAGHOUSES/GENERATORS**

☐ NOT APPLICABLE

EQUIP. #	INSPECTOR	TIME	ABNORMAL EMISSIONS CIRCLE Y OR N	COMMENTS
			Y / N	
			Y / N	
			Y / N	
			Y / N	
			Y / N	
			Y / N	

**REPAIR LIST SAFETY AND ENVIRONMENTAL REPAIRS NEEDED AND LOCATION**

- |                              |                               |
|------------------------------|-------------------------------|
| DATE _____<br>_____<br>_____ | 1 _____<br>2 _____<br>3 _____ |
|------------------------------|-------------------------------|

SIGNATURE OF PERSON COMPLETING SAFETY AND ENVIRONMENTAL REPAIRS \_\_\_\_\_

SIGNATURE OF RESPONSIBLE PERSON \_\_\_\_\_